

| BOQ Cum Price Schedule (Annexure-I)   |  |          |      |                 |                    |
|---|--|----------|------|-----------------|--------------------|
| <b>Name of the Work:-</b> Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of substation extension package SS02 at 765 kV Bhadla -02 substation in Rajasthan. |  |          |      |                 |                    |
| <b>Customer:</b> M/s POWERGRID CORPORATION OF INDIA LIMITED   |  |          |      |                 |                    |
| <b>Tender Ref. no.:-</b> TBSM/PGCIL/BHADLA-II/ETC/TENDER/20-21 Date: 27.08.2020   |  |          |      |                 |                    |
| Sl. No.   | Description of Item  | Quantity | UOM  | Unit Rate (Rs.) | Total Amount (Rs.) |
| 1   | 765kV, 3150A, 3-Phase SF6 Circuit Breaker with PIR along with lattice type GI supporting structure, platform with ladder, terminal connectors, Breaker Control Cabinets and interpole cabling, SF6 Gas cylinders. (Supervision of Erection, Testing and commissioning will be done by supplier. Supplier will bring Breaker timing kit and Gas leak detector only. Necessary manpower support, tools, tackles and testing kits is in the scope of ETC contractor).   | 2        | Nos. | 1,09,627.46     | 2,19,254.92        |
| 2   | 765kV, 3150A, 3-Phase, Knee Type Isolator with one earth switch (motor operated) electrically ganged complete with 6 nos. of support insulators, 3 nos operating rod insulators & terminal connectors without support structure.   | 4        | Nos. | 30,820.53       | 1,23,282.12        |
| 3   | 765kV, 1 Ph, Current Transformer complete with terminal connectors without support structure.  | 6        | Nos. | 20,547.03       | 1,23,282.18        |
| 4   | DGA Test for 765kV CT Oil – Scope includes sampling of oil from CT (sample bottle, syringe etc for DGA test is NOT in the scope of bidder) under supervision of OEM / BHEL. Bidder's scope covers all supports for sampling, safely delivery and submission of test sample to Powergrid laboratory, getting it tested and submission of test report to BHEL. Powergrid laboratory charges shall in the scope of bidder.  | 6        | Nos. | 2,500.00        | 15,000.00          |
| 5   | 765kV, 1 Ph, Capacitive Voltage Transformer complete with terminal connectors without support structure.   | 6        | Nos. | 20,547.03       | 1,23,282.18        |
| 6   | Wave Trap pedestal mounted including 3 Nos. 765kV Post Insulators and Terminal connectors without support structure.   | 4        | Nos. | 13,232.06       | 52,928.24          |
| 7   | 624kV, 1 Phase, Gapless type Metal Oxide Surge Arrester complete with surge counter, leakage current meter, insulating base, connecting cable/strip and terminal connectors without support structure.   | 6        | Nos. | 5,211.90        | 31,271.40          |
| 8   | 765kV, 1 Ph, BPI (Solid core Bus Post insulator) with corona ring complete with terminal connectors without support structure.   | 8        | Nos. | 5,101.86        | 40,814.88          |
| 9   | GI Lattice Structures including hardware for Towers, beams, LM & equipments support  | 171      | MT   | 4,587.36        | 7,84,438.56        |
| 10  | GI Pipe Structures including hardware for equipments support   | 0.5      | MT   | 3,873.78        | 1,936.89           |
| 11  | Supply of equipment fixing hardware (not dip galvanized) including nut, bolt and plain /spring washer as per Site requirement (Erection shall be covered with respective equipment support structure)<br>1. Bolts - Class 5.6 of IS:1367 (part 3) - 1991 (M12-M33, 30-145mm lg. & fully threaded).<br>2. Nuts - Class 5 of IS:1367 (part 6) - 1980.<br>3. Plain Washers - A type conforming to IS: 2016-1967.<br>4. Spring Washer - Type B of IS: 3063-1972<br>Note - Size of hardware shall be suitable for equipments /box/JIP and same shall be decided at site | 200      | kg   | 91.95           | 18,390.00          |
| 12  | 765kV Double Tension Stringing Hardware - with Turn Buckle, with 2 numbers of complete Polymer Long Rod Insulator, suitable for quad Bull conductor.   | 6        | Set  | 4,296.88        | 25,781.28          |
| 13  | 765kV Double Tension Stringing Hardware - without Turn Buckle, with 2 numbers of complete Polymer Long Rod Insulator, suitable for quad Bull conductor.  | 6        | Set  | 4,296.88        | 25,781.28          |
| 14  | 765kV Double Tension Stringing Hardware - with Turn Buckle, with 2 numbers of complete Polymer Long Rod Insulator, suitable for HEXA ACSR Zebra conductor.   | 6        | Set  | 4,296.88        | 25,781.28          |
| 15  | 765kV V-Suspension Stringing Hardware - with drop type clamp, 2 numbers of complete Polymer Long Rod Insulator, suitable for quad Bull conductor.  | 6        | Set  | 4,521.40        | 27,128.40          |
| 16  | 765kV V-Suspension Stringing Hardware - with through type clamp, 2 numbers of complete Polymer Long Rod Insulator, suitable for quad Bull conductor.   | 6        | Set  | 2,864.23        | 17,185.38          |
| 17  | 765kV Guy Wire Arrangement - with complete Double 210kN Long Rod Polymer Insulator and string hardware with Turn Buckle set suitable for quad Bull conductor (450mm spacing) & shield wire at bottom. Including accessories complete in all respect.   | 12       | Set  | 1,858.96        | 22,307.52          |

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| <b>Name of the Work:-</b> Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of substation extension package SS02 at 765 kV Bhadla -02 substation in Rajasthan. |  |          |       |                 |                    |
| <b>Customer:</b> M/s POWERGRID CORPORATION OF INDIA LIMITED   |  |          |       |                 |                    |
| <b>Tender Ref. no.:-</b> TB5M/PGCIL/BHADLA-II/ETC/TENDER/20-21 Date: 27.08.2020   |  |          |       |                 |                    |
| Sl. No.   | Description of Item  | Quantity | UOM   | Unit Rate (Rs.) | Total Amount (Rs.) |
| 18  | AAC Bull Conductor complete with Tee connectors for droppers to equipment connections, PG clamps for Busbar jumpering, Twin/Quad bundle rigid/flexible spacers etc to complete                                   | 5.1      | kM    | 87,559.78       | 4,46,554.88        |
| 19  | 4.5" Al Tube (ETC of Al.Tube includes cutting, Aluminum welding, testing, bending & installation of Al. Tube). Welding sleeve and Al. tube will be supplied by BHEL)   | 350      | Meter | 365.02          | 1,27,757.00        |
| 20  | SUPPLY: Supply of Galvanized Steel Earth Wire - 7/9 SWG Stranded Shield Wire as per clause 4.0 of "Section : SE". ETC is covered under a separate BOQ line item)   | 750      | Meter | 77.52           | 58,140.00          |
| 21  | Installation of 7/9 SWG GI Stranded Shield wire including tension clamp, PG clamp and clamping on structure for down conductor, fixing/bolting with earth strip etc to complete.                                 | 750      | Meter | 51.15           | 38,362.50          |
| 22  | 765kV Terminal Connector. - Dismantling of terminal connectors from customer supplied/erected items whereas erection of equipments are not in scope of contractor.   | 6        | Nos.  | 722.57          | 4,335.42           |
| 23  | 765kV Terminal Connector. - Installation of terminal connectors at customer supplied/erected items whereas erection of equipments are not in scope of contractor. Terminal connectors shall be provided by BHEL. | 6        | Nos.  | 722.57          | 4,335.42           |
| 24  | BMK - Bay Marshalling Kiosks (Outdoor type, Floor / Trench mounted)  | 2        | Nos.  | 3,395.70        | 6,791.40           |
| 25  | CTJB - Junction Box (on CT structure)  | 2        | Nos.  | 2,194.30        | 4,388.60           |
| 26  | CVTJB - Junction Box (on CVT structure)  | 2        | Nos.  | 2,194.30        | 4,388.60           |
| 27  | 765KV, CIRCUIT BREAKER RELAY PANEL WITH AUTORECLOSE (WITH AUTOMATION)  | 2        | Nos.  | 8,820.20        | 17,640.40          |
| 28  | 765KV, LINE PROTECTION PANEL (WITH AUTOMATION)   | 2        | Nos.  | 8,820.20        | 17,640.40          |
| 29  | 765KV, EXISTING BUSBAR PROTECTION SYSTEM AUGMENTATION  | 1        | Set   | 11,870.50       | 11,870.50          |
| 30  | AUGMENTATION OF SUBSTATION AUTOMATION SYSTEM FOR 765kV MAIN BAYS   | 2        | Nos.  | 11,870.50       | 23,741.01          |
| 31  | AUGMENTATION OF SUBSTATION AUTOMATION SYSTEM FOR 765kV TIE BAYS  | 2        | Nos.  | 11,870.50       | 23,741.01          |
| 32  | PLCC: Coupling device(Phase to Phase)  | 2        | Nos.  | 10,793.50       | 21,587.00          |
| 33  | PLCC: PLCC Panel -Carrier equipment (for speech + protection and speech +data) (Analogue type ) alongwith Analog Protection Coupler  | 2        | Nos.  | 10,793.50       | 21,587.00          |
| 34  | PLCC: PLCC Panel -Digital Protection coupler   | 2        | Nos.  | 6,056.35        | 12,112.70          |
| 35  | PLCC: 4 wire telephone instrument( Along with telephone wiring )   | 1        | Nos.  | 104.42          | 104.42             |
| 36  | PLCC: Supply 5 Pair Telephone Cables, armoured ,0.5 sq. mm annealed copper conductor and petroleum jelly filled with polyethene outer jackets - Powergrid approved make  | 500      | m     | 94.00           | 47,000.00          |
| 37  | PLCC: Installation of 5 Pair Telephone Cables, armoured ,0.5 sq. mm annealed copper conductor and petroleum jelly filled with polyethene outer jackets   | 500      | m     | 10.44           | 5,220.00           |
| 38  | PLCC: Testing & maintenance equipment(print test kit only) ( Handling & Storage only)  | 1        | Nos.  | 1,199.27        | 1,199.27           |
| 39  | PLCC: HF Cable   | 500      | m     | 10.44           | 5,220.00           |
| 40  | Telecommunication equipment: Equipment Cabinet for SDH & PDH equipment   | 1        | Nos.  | 6,265.39        | 6,265.39           |
| 41  | NMS (for SDH equipment & Multiplexer) (Handling & Storage only)  | 1        | Nos.  | 5,221.16        | 5,221.16           |
| 42  | Telecommunication equipment: VOIP Telephone instrument with one common switch ( 8 port)  | 4        | Nos.  | 541.86          | 2,167.44           |
| 43  | Telecommunication equipment: Fibre optic armoured approach Cable 24 fibre  | 1000     | Meter | 18.53           | 18,530.00          |
| 44  | Telecommunication equipment: FODP indoor type (96 fibres)  | 1        | Nos.  | 3,467.85        | 3,467.85           |
| 45  | PMU (PHASOR MEASUREMENT UNIT): PMU Panels (alongwith Station grade Layer3 LAN switch)  | 2        | Nos.  | 11,565.15       | 23,130.30          |
| 46  | PMU (PHASOR MEASUREMENT UNIT): Time synchronization Equipment (GPS receiver with wiring)   | 2        | Nos.  | 5,347.74        | 10,695.48          |
| 47  | PMU (PHASOR MEASUREMENT UNIT): Station grade Layer3 LAN switch   | 1        | Nos.  | 575.57          | 575.57             |

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| <b>Customer:</b> M/s POWERGRID CORPORATION OF INDIA LIMITED   |  |          |       |                 |                    |
| <b>Tender Ref. no.:-</b> TBSM/PGCIL/BHADLA-II/ETC/TENDER/20-21 Date: 27.08.2020   |  |          |       |                 |                    |
| Sl. No.   | Description of Item  | Quantity | UOM   | Unit Rate (Rs.) | Total Amount (Rs.) |
| 48  | PMU (PHASOR MEASUREMENT UNIT): Fibre optic armoured Cable  | 1500     | Meter | 16.61           | 24,915.00          |
| 49  | Lighting Panel ACP-2 (Outdoor type, Foundation Mounted) including installation of mounting hardwares / anchor fastener / foundation bolt etc complete in all respect.  | 1        | Nos.  | 4,935.08        | 4,935.08           |
| 50  | Sub Lighting panel SLP (Outdoor type, Foundation / structure Mounted) including installation of structure, mounting hardwares / anchor fastener etc complete in all respect.   | 3        | Nos.  | 4,935.08        | 14,805.24          |
| 51  | Outdoor Junction Box (Outdoor type, Foundation / structure Mounted) including installation of support structure, mounting hardwares / anchor fastener etc complete in all respect.   | 4        | Nos.  | 407.48          | 1,629.92           |
| 52  | LED Flood Light Luminaries Type FL-1 (150W) including installation of mounting hardwares, brackets, fastener, screw, nut bolt etc complete.  | 2        | Nos.  | 431.83          | 863.66             |
| 53  | LED Flood Light Luminaries Type FL-2 (250W) including installation of mounting hardwares, brackets, fastener, screw, nut bolt etc complete.  | 8        | Nos.  | 431.83          | 3,454.64           |
| 54  | Earthing work with 75X12 GI Flat - Installation of GI Flat including cutting, bending, welding with GI Flat / MS Rod, supply and application of paint, clamping to structure/building wall etc. to complete in all respect. All arc welding shall be done with low hydrogen content electrodes. the welds should be treated with two coats of metal primer (comprising of red oxide and zinc chromate in a synthetic medium) followed by two finishing coats of aluminum paint. The red oxide and zinc chromate shall conform to IS:2074.    | 12       | MT    | 9,430.49        | 1,13,165.88        |
| 55  | Earthing work with 50X6 GI Flat / MS Flat - Installation of Flat including cutting, bending, welding with Flat / MS Rod, supply and application of paint, clamping to structure/building wall etc. to complete in all respect. All arc welding shall be done with low hydrogen content electrodes. the welds should be treated with two coats of metal primer (comprising of red oxide and zinc chromate in a synthetic medium) followed by two finishing coats of aluminum paint. The red oxide and zinc chromate shall conform to IS:2074. | 2.5      | MT    | 9,430.49        | 23,576.23          |
| 56  | Laying of 100 to 150 mm wide, 2.5 M long, 2mm thick (minimum) G.S. steel Perforated type cable trays with cover, coupler plates, hardware, fixing and clamping arrangement with lattice type support equipment's structure etc to complete including cutting & jointing to suitable length. Fixing and clamping hardware required for fixing of perforated tray with lattice / pipe structure shall be in ETC contractor scope.  | 50       | Meter | 51.04           | 2,552.00           |
| 57  | Supply of 50x50x6 mm MS Angle - Powergrid approved make  | 5        | MT    | 47,000.00       | 2,35,000.00        |
| 58  | Supply of 50x6 mm MS Flat - Powergrid approved make  | 1.5      | MT    | 50,000.00       | 75,000.00          |
| 59  | Installation of Cable Rack - work includes cutting, welding and fabrication of cable racks with MS angles & MS Flat (for continues earthing run) on inserts of cable trench walls. Cable rack assembly shall be of 1/2/3/4 tier as applicable. Cable racks and supports shall be painted after installation with two coats of metal primer (comprising of red oxide and zinc chromate in a synthetic medium) followed by two finishing coats of aluminum paint. (supply of paint is in scope of bidder)                                      | 5        | MT    | 12,198.13       | 60,990.65          |
| 60  | Supply and installation of Panel Supporting Angles / Channel etc on cable trench in CRB / SPR, Vertical support for cables etc (Including Supply). Supports shall be painted after installation with two coats of metal primer (comprising of red oxide and zinc chromate in a synthetic medium) followed by two finishing coats of aluminum paint. (supply of paint is in scope of bidder)  | 1        | MT    | 1,09,745.63     | 1,09,745.63        |
| 61  | Supply of 32 mm (Nominal Dia) HDPE - High Density PE pipe including tee / elbow as per relevant IS code. Mode of measurement shall be running length of HDPE Pipe only. Tee & Bend as per requirements are deemed included.  | 100      | Meter | 125.91          | 12,591.00          |

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| <b>Customer:</b> M/s POWERGRID CORPORATION OF INDIA LIMITED   |   |          |       |                 |                    |
| <b>Tender Ref. no.:-</b> TBSM/PGCIL/BHADLA-II/ETC/TENDER/20-21 Date: 27.08.2020   |   |          |       |                 |                    |
| Sl. No.   | Description of Item   | Quantity | UOM   | Unit Rate (Rs.) | Total Amount (Rs.) |
| 62  | Supply of 25 NB GI pipes (light grade) conduits along with socket, bend and joint on trench rack support etc complete. Supply of required clamp for fixing GI conduits on Cable rack shall be in ETC contractor scope. Mode of measurement shall be running length of pipe conduit.   | 350      | Meter | 230.91          | 80,818.50          |
| 63  | Supply of 50 NB GI pipes (light grade) conduits along with socket, bend and joint on trench rack support etc complete. Supply of required clamp for fixing GI conduits on Cable rack shall be in ETC contractor scope. Mode of measurement shall be running length of pipe conduit.   | 400      | Meter | 461.82          | 1,84,728.00        |
| 64  | INSTALLATION OF 110 mm dia PVC Pipe. Which shall be buried in the ground at a depth of 300 mm below FGL. Work includes excavation, backfilling, making trench holes and repairing of cable trench walls, cutting, fixing of sockets/ bends where required etc. complete. Both ends of PVC conduits shall be closed by plastering. (Payment will be made for the as erected pipe length) | 1650     | Meter | 93.98           | 1,55,067.00        |
| 65  | INSTALLATION OF 50 mm dia PVC Pipe. Which shall be buried in the ground at a depth of 300 mm below FGL. Work includes excavation, backfilling, making trench holes and repairing of cable trench walls, cutting, fixing of sockets/ bends where required etc. complete. Both ends of PVC conduits shall be closed by plastering. (Payment will be made for the as erected pipe length)  | 550      | Meter | 78.66           | 43,263.00          |
| 66  | INSTALLATION OF 25 NB GI pipes (light grade) conduits along with socket, bend and joint on trench rack support . Cutting, threading, fixing of clamps sockets/ bends/joints where required etc. complete. Mode of measurement shall be running length of pipe conduit. GI conduits shall be used for INSTALLATION OF fiber optic cables /sensor cables.                                 | 350      | Meter | 39.33           | 13,765.50          |
| 67  | INSTALLATION OF 50 NB GI pipes (light grade) conduits along with socket, bend and joint on trench rack support . Cutting, threading, fixing of clamps sockets/ bends/joints where required etc. complete. Mode of measurement shall be running length of pipe conduit. GI conduits shall be used for INSTALLATION OF fiber optic cables /sensor cables.                                 | 400      | Meter | 78.66           | 31,464.00          |
| 68  | INSTALLATION OF 25/32 MM DIA. HDPE PIPE in cable trench, trays, hanger, supports, STRUCTURE, through wall etc   | 100      | Meter | 65.84           | 6,584.00           |
| 69  | INSTALLATION OF 25/32 MM DIA. HDPE PIPE buried in the ground at a depth of 300 mm below FGL. Work includes excavation, backfilling, making trench holes and repairing of cable trench walls, cutting, fixing of sockets/ bends where required etc. complete. (Payment will be made for the as erected pipe length)  | 100      | Meter | 114.74          | 11,473.51          |
| 70  | INSTALLATION of ARMOURED FIBER OPTIC CABLE in GI Pipe / HDPE Pipe along with connectors for SAS & Busbar Protection/PLCC. Splicing and Termination shall be in supplier's scope.). Installation of GI / HDPE Pipe is covered in separate BOQ line item.   | 1500     | Meter | 14.14           | 21,210.00          |
| 71  | ETC of LT control cable - 2C X 2.5 Cu   | 500      | Meter | 13.22           | 6,610.00           |
| 72  | ETC of LT control cable - 5C X 2.5 Cu   | 5000     | Meter | 13.22           | 66,100.00          |
| 73  | ETC of LT control cable - 7C X 2.5 Cu   | 1000     | Meter | 13.23           | 13,230.00          |
| 74  | ETC of LT control cable - 10C X 2.5 Cu  | 7000     | Meter | 14.16           | 99,120.00          |
| 75  | ETC of LT control cable - 14C X 2.5 Cu  | 2000     | Meter | 18.88           | 37,760.00          |
| 76  | ETC of LT control cable - 19C X 2.5 Cu  | 1000     | Meter | 20.76           | 20,760.00          |
| 77  | ETC of LT control cable - 27C X 2.5 Cu  | 1000     | Meter | 29.65           | 29,650.00          |
| 78  | ETC of LT XLPE Power cable - 3.5C X 300 Al  | 100      | Meter | 61.69           | 6,169.00           |
| 79  | ETC of LT Power cable in directly Buried Cable trench (including sand bed & brick cover) - 3.5C X 300 Al  | 100      | Meter | 532.43          | 53,243.00          |
| 80  | ETC of LT Power cable - 3.5C X 70 Al  | 2000     | Meter | 27.37           | 54,740.00          |
| 81  | ETC of LT Power cable - 3.5C X 35 Al  | 100      | Meter | 18.88           | 1,888.00           |
| 82  | ETC of LT Power cable - 4C X 16 Al  | 4000     | Meter | 15.85           | 63,400.00          |
| 83  | ETC of LT Power cable - 4C X 6 Al   | 1500     | Meter | 14.71           | 22,065.00          |
| 84  | ETC of LT Power cable - 2C X 6 Al   | 900      | Meter | 13.58           | 12,222.00          |
| 85  | SUPPLY OF CABLE GLAND SUITABLE FOR 2C X 2.5 PVC/Cu CONTROL Cable  | 20       | Nos.  | 188.79          | 3,775.80           |
| 86  | SUPPLY OF CABLE GLAND SUITABLE FOR 5C X 2.5 PVC/Cu Control Cable  | 150      | Nos.  | 188.79          | 28,318.50          |

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| <b>Customer:</b> M/s POWERGRID CORPORATION OF INDIA LIMITED   |  |          |      |                 |                    |
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| Sl. No.   | Description of Item  | Quantity | UOM  | Unit Rate (Rs.) | Total Amount (Rs.) |
| 87  | SUPPLY OF CABLE GLAND SUITABLE FOR 7C X 2.5 PVC/Cu Control Cable   | 60       | Nos. | 211.69          | 12,701.40          |
| 88  | SUPPLY OF CABLE GLAND SUITABLE FOR 10C X 2.5 PVC/ Cu Control Cable   | 56       | Nos. | 254.86          | 14,272.16          |
| 89  | SUPPLY OF CABLE GLAND SUITABLE FOR 14C X 2.5 Cu PVC/ Control Cable   | 76       | Nos. | 283.12          | 21,517.12          |
| 90  | SUPPLY OF CABLE GLAND SUITABLE FOR 19C X 2.5 Cu PVC/ Control Cable   | 42       | Nos. | 306.53          | 12,874.26          |
| 91  | SUPPLY OF CABLE GLAND SUITABLE FOR 27C X 2.5 Cu Control Cable  | 16       | Nos. | 591.92          | 9,470.72           |
| 92  | SUPPLY OF CABLE GLAND SUITABLE FOR 3.5C X 300 Al C XLPE Power Cable  | 6        | Nos. | 751.73          | 4,510.38           |
| 93  | SUPPLY OF CABLE GLAND SUITABLE FOR 3.5C X 70 Al Power Cable  | 12       | Nos. | 377.57          | 4,530.84           |
| 94  | SUPPLY OF CABLE GLAND SUITABLE FOR 3.5C X 35 Al Power Cable  | 6        | Nos. | 330.37          | 1,982.22           |
| 95  | SUPPLY OF CABLE GLAND SUITABLE FOR 4C X 16 Al Power Cable  | 20       | Nos. | 286.16          | 5,723.20           |
| 96  | SUPPLY OF CABLE GLAND SUITABLE FOR 4C X 6 Al Power Cable   | 60       | Nos. | 286.16          | 17,169.60          |
| 97  | SUPPLY OF CABLE GLAND SUITABLE FOR 2C X 6 Al Power Cable   | 15       | Nos. | 208.12          | 3,121.80           |
| 98  | Supply of Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652)   | 10       | Sq.m | 1,584.67        | 15,846.70          |
| 99  | Installation of Rubber mats (Class-A suitable for 1.1 kV as per IS: 15652) in front of Panels  | 10       | Sq.m | 176.07          | 1,760.70           |
| 100   | Supply & Mounting of Phase Color Discs, Danger Plate and Identification Plates for bays & Equipments as per IS: 2551; 1982 & IS: 5: 1978.  | 1        | Lot  | 1,14,955.54     | 1,14,955.54        |
| 101   | PHASE IDENTIFICATION - Painting the structures in Red, Yellow and Blue by reflecting Colour is to be provided around the top of the structure with Colour band of 100 mm width.  | 1        | Lot  | 25,000.00       | 25,000.00          |
| 102   | Supply & Installation of BAY IDENTIFICATION - Bay Name Plate as per drawing no. C/ENG/STD/BAY NAME PLATE   | 2        | Nos. | 971.21          | 1,942.42           |
| 103   | Supply & Installation of Cable Tag - The tag shall be of aluminum with the number punched on it and securely attached to the cable conduit by not less than two turns of 20 SWG GI wire conforming to IS: 280. Cable tags shall be of rectangular shape for power cables and of circular shape for control cables. | 1        | Lot  | 2,000.00        | 2,000.00           |
| 104   | Repair/Modification work in Control room for fixing of panels under present scope including covering of gap and floor finishing to meet the aesthetic.   | 1        | Lot  | 32,385.55       | 32,385.55          |
| 105   | Dismantling of guy wire arrangement for existing 3-phase isolator and handing over as per site requirement.  | 6        | set  | 929.48          | 5,576.88           |
| 106   | Dismantling of existing lattice / pipe structure and its disposal as per site requirement.   | 1        | MT   | 846.11          | 846.11             |
| 107   | MANDATORY SPARES - A: 765kV SF6 Circuit Breaker Spare - Unloading, storage , material handling and Handing over.   | 1        | Lot  | 10,541.67       | 10,541.67          |
| 108   | MANDATORY SPARES - B.1: 765 KV, 3150A, 3 Ph. Isolator with one E/S Spare material handling   | 1        | Lot  | 6,588.54        | 6,588.54           |
| 109   | MANDATORY SPARES - B.2: 765 KV, 3150A, 3 Ph. Isolator with two E/S Spare material handling   | 1        | Lot  | 6,588.54        | 6,588.54           |
| 110   | MANDATORY SPARES - C: 765kV Current Transformer Spare - Unloading, storage , material handling and Handing over.   | 1        | Lot  | 9,223.96        | 9,223.96           |
| 111   | MANDATORY SPARES - D.1: 765KV, CIRCUIT BREAKER RELAY PANEL WITH AUTORECLOSE (WITH AUTOMATION) - Unloading, storage , material handling and Handing over.   | 1        | Lot  | 6,588.54        | 6,588.54           |
| 112   | MANDATORY SPARES - D.2: 765KV, EXISTING BUSBAR PROTECTION SYSTEM AUGMENTATION - Unloading, storage , material handling and Handing over.   | 1        | Lot  | 2,635.42        | 2,635.42           |
| 113   | MANDATORY SPARES - D.3: AUGMENTATION OF SUBSTATION AUTOMATION SYSTEM FOR 765kV TIE BAYS - Unloading, storage , material handling and Handing over.   | 1        | Lot  | 2,635.42        | 2,635.42           |
| 114   | MANDATORY SPARES - E.1: LT Control Cable - Unloading, storage , material handling and Handing over.  | 1        | Lot  | 5,000.00        | 5,000.00           |
| 115   | MANDATORY SPARES - E.2: LT Power Cable - Unloading, storage , material handling and Handing over.  | 1        | Lot  | 5,000.00        | 5,000.00           |

| BOQ Cum Price Schedule (Annexure-I)   |   |          |                    |                 |                    |
|---|---|----------|--------------------|-----------------|--------------------|
| <b>Name of the Work:-</b> Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of substation extension package SS02 at 765 kV Bhadla -02 substation in Rajasthan. |   |          |                    |                 |                    |
| <b>Customer:</b> M/s POWERGRID CORPORATION OF INDIA LIMITED   |   |          |                    |                 |                    |
| <b>Tender Ref. no.:-</b> TBSM/PGCIL/BHADLA-II/ETC/TENDER/20-21 Date: 27.08.2020   |   |          |                    |                 |                    |
| Sl. No.   | Description of Item   | Quantity | UOM                | Unit Rate (Rs.) | Total Amount (Rs.) |
| 116   | MANDATORY SPARES - F.1 : Telecommunication Equipment - Unloading, storage , material handling and Handing over.   | 1        | Lot                | 4,611.98        | 4,611.98           |
| 117   | Watch and ward of stored / erected material at project site and storage area or any other locations as per instruction of site in charge. (round the clock security by authorized service agency) | 6        | Per Post Per Month | 57,760.86       | 3,46,565.16        |
| Total Amount (in Rs.) - Excluding GST   |   |          |                    |                 | 51,16,434          |

**ANNEXURE-II**

**TRANSMISSION BUSINESS GROUP  
(SUB- CONTRACTS MANAGEMENT)  
TBG - NOIDA**

**PRICE SCHEDULE FORMAT**

**SUB: TENDER FOR "RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF SUBSTATION EXTENSION PACKAGE SS02 AT 765 KV BHADLA -02 SUBSTATION IN RAJASTHAN".**

**TENDER SPEC. NO.:- TBSM/PGCIL/BHADLA-II/ETC/TENDER/20-21**

**DATE: 27.08.2020**

(a) I/ We hereby agree to execute the above work at ----- % (in figure).....  
----- (in words) Above / Below/ At Par the rates of items given in BOQ  
(Annexure-I) of subject tender.

**NOTE:**

1. In this annexure the tenderer shall quote a percentage above/ below/At Par the rates shown in the Bill of Quantities (Annexure-I) of subject tender. The percentage quoted shall be clearly written both in words and figures. In case of discrepancy in rates in figure and words, the minimum will be taken into account by BHEL.
2. The quoted percentage will apply to the individual items uniformly.

Date:  
Place

Signature of tenderer  
Name & Designation of authorized person(s) with seal

**ANNEXURE-III**  
**( Summary Of Prices)**

**NAME OF WORK :- RECEIPT OF EQUIPMENT/ MATERIAL AT SITE, UNLOADING, RECONCILIATION, INSPECTION, VERIFICATION, STORAGE, UP-KEEPING DURING STORAGE, ERECTION, TESTING, COMMISSIONING AND HANDING OVER OF SUBSTATION EXTENSION PACKAGE SS02 AT 765 KV BHADLA -02 SUBSTATION IN RAJASTHAN**

**TENDER SPECIFICATION NO.:-TBSM/PGCIL/BHADLA-II/ETC/TENDER/20-21 Date: 27.08.2020**

| <b>Sl No.</b> | <b>Description</b>   | <b>Amount (Rs.)</b>        |
|---------------|--|----------------------------|
| 1             | Total Amount as per rates in BOQ for "Receipt of equipment/ material at site, unloading, reconciliation, inspection, verification, storage, up-keeping during storage, erection, testing, commissioning and handing over of substation extension package SS02 at 765 kV Fatehgarh -02 substation in Rajasthan."<br><b>(Annexure-I)</b> | 51,16,434.00               |
| 2             | Value of percentage above/below/at par (As indicated in Price Schedule Format, <b>Annexure-II</b> ) applicable to the total amount of ETC work ( at Sl. no. 1 above)   | .....% above/below/ at par |
| 3             | <b>Total amount after consideration of percentage above/below/ at par.</b>   |                            |
| 4             | <b>Total amount (in words) after consideration of percentage above/below/ at par.</b>  |                            |